

CP SERIES CRYOPUMP

Kamhavar Sazan Pishlax

ZSP Technology

ZSP Company



Excerpt from the ZSP Company Cryopump Catalog
Product Section cp series
Edition 2019

CP SERIES CRYOPUMP

- **Compact and Powerfull Design:**

Our coldhead allows easier installation in systems – particularly where space is at a premium

- **Efficient and Powerfull System:**

Capable of reaching 15 K with 3-phase electrical power requirement

Gifford McMahon closed cycle refrigerator (CCR) has long been regarded as one of the most versatile, compact and cost-effective solutions available

Comprising two stage 15 K coldheads coupled with the helium compressor, Cryocoolers all offer fastcooldown times, making them the perfect choice for integration into a wide range of applications.

Features

- Ultra-clean vacuum
- Pumping all gases
- Lower operating cost
- Mounted in any orientation
- Compact and light weight
- Quiet, easy to operate
- Higher pumping speed
- No liquid helium or nitrogen

Applications:

- Vacuum evaporation system
- Nuclear fusion facilities
- Sputtering system
- Surface analysis equipment
- Ion implantation system
- Space chamber
- Semiconductor manufacturing system
- Accelerator
- Equipment which require clean high and ultra-high vacuum

Full option system features items:

- Helium Closed Cycle 2 Stage Refrigerator
- Cernox Cryogenic Temperature Sensors (Calibrated from 4K to 325K)
- Cryogenic Temperature Controller Monitor
- Flexible Vacuum Chamber
- Rotary Vane Vacuum Pump

Specification:

| | |
|---|------------------|
| Temperature Range: | 15K to 325K |
| Cooldown Time: | 60 min |
| Helium In/Out Pressure: | 13/21 bar |
| Maintenance Time: | 8.000 hours |
| Power Supply: | 380V 3-phase |
| Refrigeration Capacity (1th Stage): | 70W @ 77K (50Hz) |
| Refrigeration Capacity (2th Stage): | 5W @ 20K (50Hz) |

Options:

- Low Vibration Support Stand
- Alignable Optical Head
- Optical Viewport Up to 60 mm Diameter (quartz, pyrex , ...)
- 24-pin Electrical Feedthrough
- Admission Valve
- Heater on 2th Stage
- ISO KF/CF Flanges
- Helium Buffer Tank**

**Buffer Tank or Long Gas Line